Airbus Freight Products in context of the crisis

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Agenda

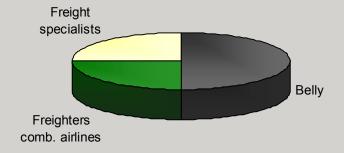
- Analysis of the economic crisis
- Airbus reaction and measures
- Airbus products in context of the crisis



Overview

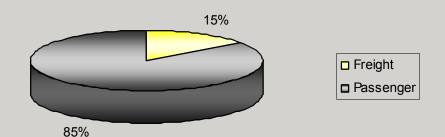
Of all FTKs

- 75% are performed by combination carriers
 - 50% are performed in the belly compartment of passenger aircraft
 - 25% are performed by freighter aircraft operated by combination carriers
- 25% is handled by <u>integrated express operators</u> and major allcargo airlines





The importance of air freight

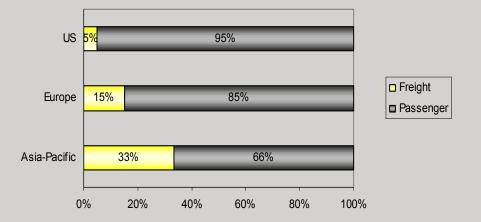


Typical airlines earn around 15% of their Revenue from freight operations

In the Asia-Pacific region, airlines generate one third of their revenue from cargo

United: 5.2% LH: 17.1% SIA: 26%

Cathay: 33%

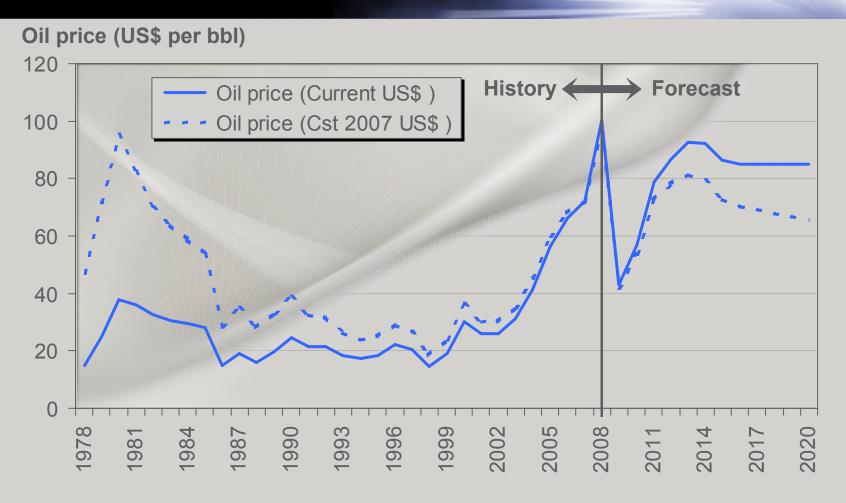


Source: ACMG



A medium term perspective shows that cheap oil is over

About 70% of all freighters are converted passenger aircraft

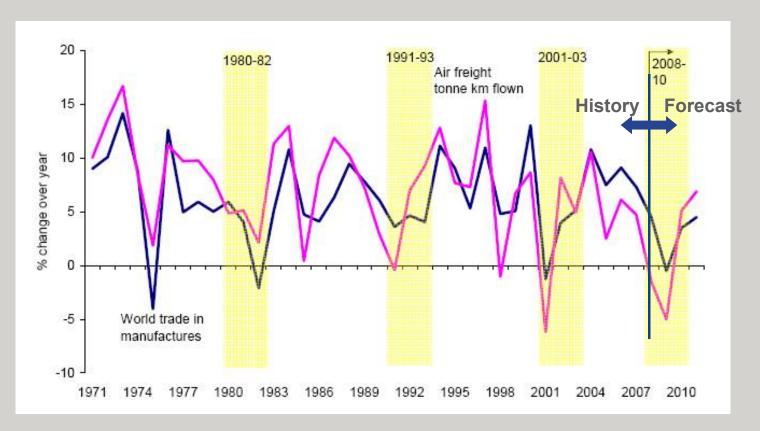


\$80-\$100 per bbl expected from 2011



Air freight is closely linked to the economy

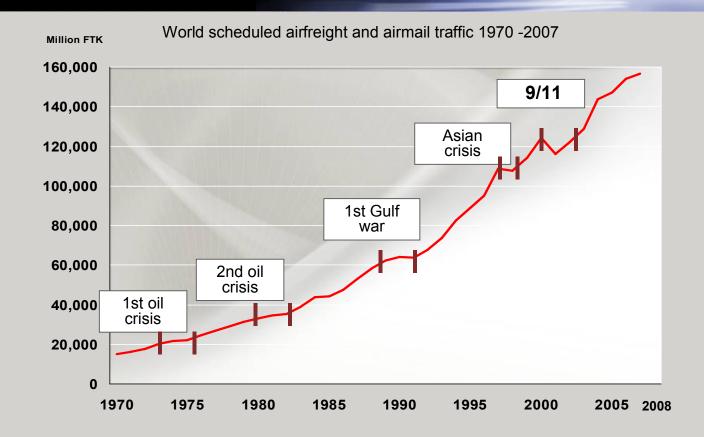
Global air freight tonne kilometers flown and world trade



Source: ICAO, IATA



The good news is: Air cargo traffic is resilient



Previous crises have been followed by strong growth

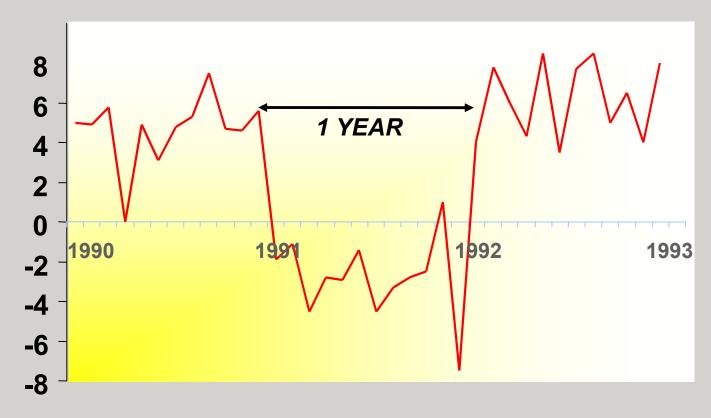
Source: ICAO & IATA



Looking back – after the Gulf crisis traffic recovered in one year

A recovery trend after one year

International scheduled FTKs Growth rate - % _



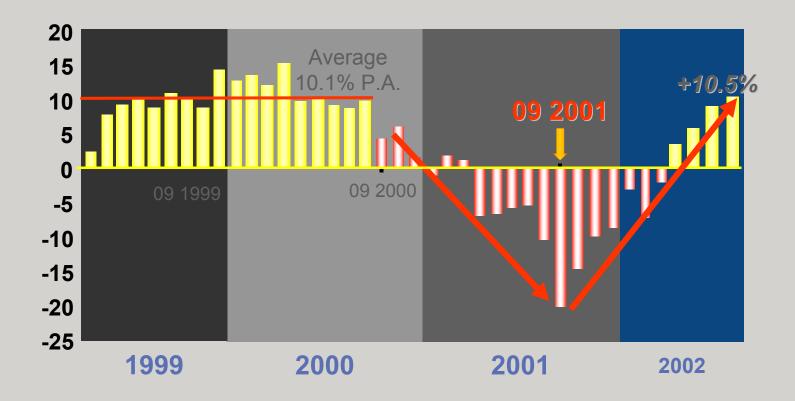
Source: IATA WATS

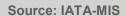


Looking back - Post 9-11, 2001 ...

A crisis of unprecedented severity...

International FTKs - month on month growth - %

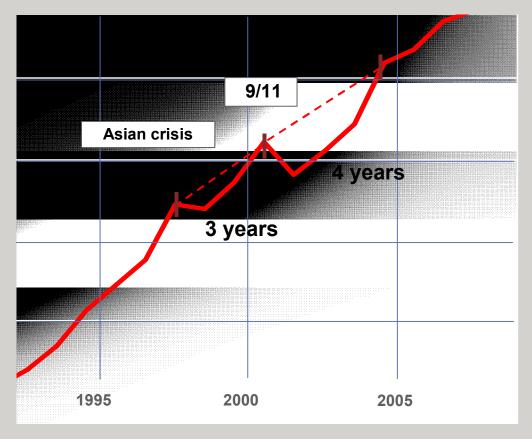






Strong recovery bringing traffic back to historical trend

World scheduled airfreight and airmail traffic 1970 -2007



After 3 to 4 years, traffic has fully reached its expected level

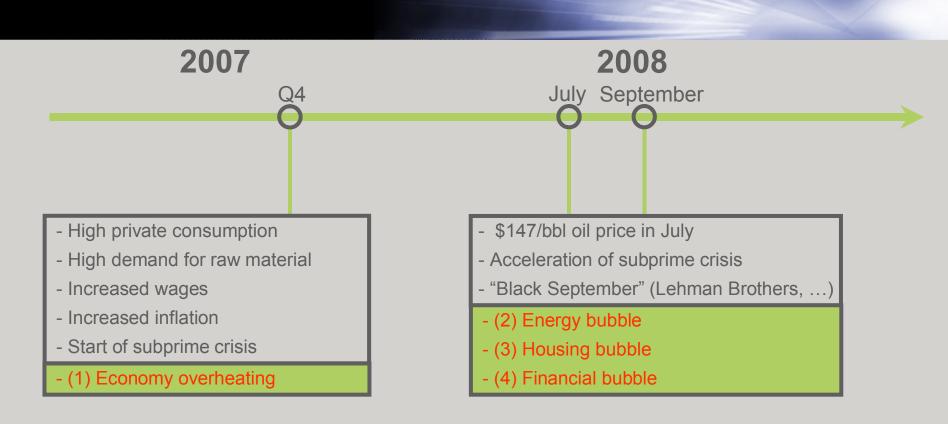
Source: ICAO & IATA

Current crisis - causes of the financial meltdown

- > Historically low interest rates resulted in a large amount of global liquidity
- Low interest rate fueled a global housing boom
- > Financial deregulation and innovation offered less creditworthy borrowers a chance to buy homes
- Financial innovation encouraged explosive growth of debt securitization (packaging mortgage sold globally to hedge fund, mutual fund, ...)
- Regulators and rating agencies too complacent about risk associated with surge in securities backed by sub-prime mortgages
- > Borrowers and lenders <u>assumed</u> that <u>home prices will continue to increase</u>
- Large high risk investment and lack of disclosure stopped bank to bank lending



Crisis timeline

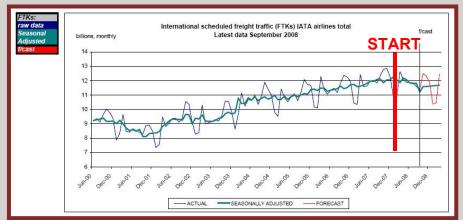


- Any of these 4 events could have led to a recession
- All 4 happened in 07/08 with (3) and (4) at the same time
- (3) and (4) burst led to a rapid deepening of recession

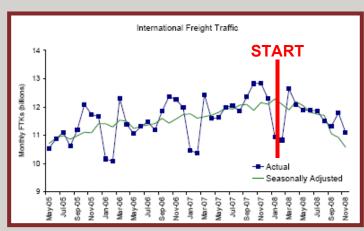


The global economic situation has strongly affected air cargo IATA figures and analysis

November 2007 vs. November 2008: 13.5% FTK drop, only exceeded by post 9-11 recession.



Historic development FTK 2001 – 2008



Recent development FTK 2008

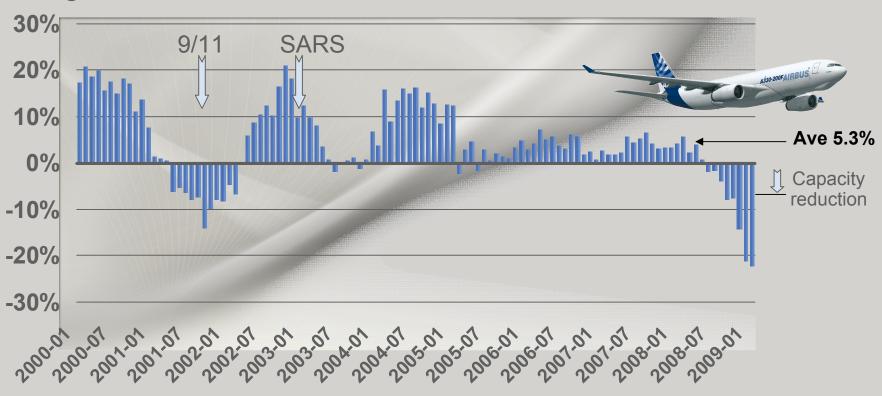
IATA gives 3 explanations:

- 1. Companies react to recession by cutting output and supplying demand out of inventories 2. The ongoing credit crunch induces shortage of trade credit
 - 3. General fall of business confidence and psychological factors



Freight traffic development





Cargo traffic down 22%, but capacity reduced by only 6%

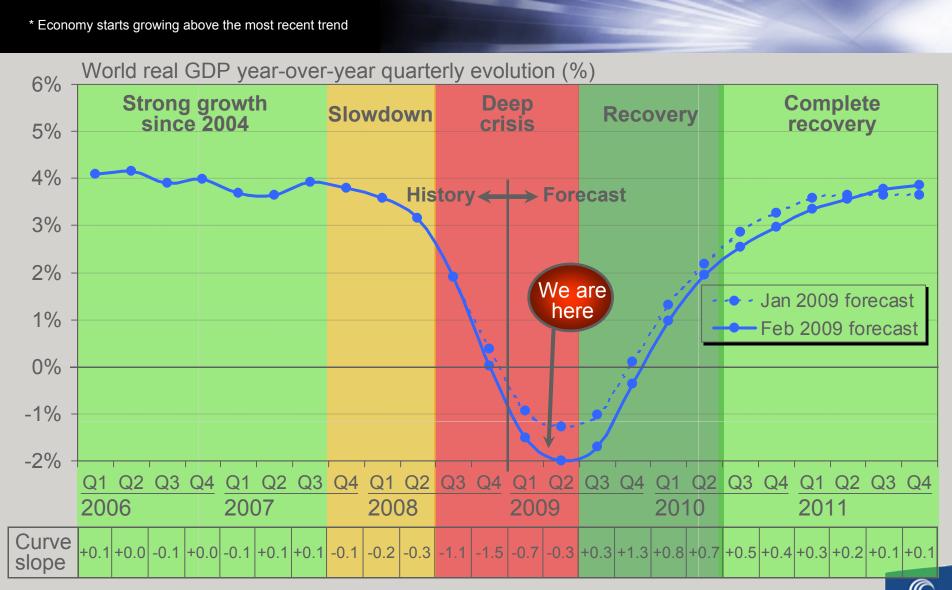


5 forces will drive global economic recovery

- Record low interest rates and unorthodox monetary policy stimulus
 (e.g. the US Federal Reserve buying mortgage-backed securities)
- Sharp drops in commodity prices, which help importing countries
- Inventories reaching a low
- Big bank rescue packages
- Fiscal stimulus, especially in the US and China



Economists anticipate a technical recovery* by 3Q2009



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The light at the end of the tunnel?

Quote of DG and CEO Giovanni Bisignani in ATWonline Friday 27 March 2009:

.

The steep cargo traffic falloff that began last summer continued, "with extremely weak demand. . .as a result of the collapse in international trade in goods and the much lower shipment of components by manufacturers," the organization said. "However, the level of airfreight appears to have found a floor over the past three months."

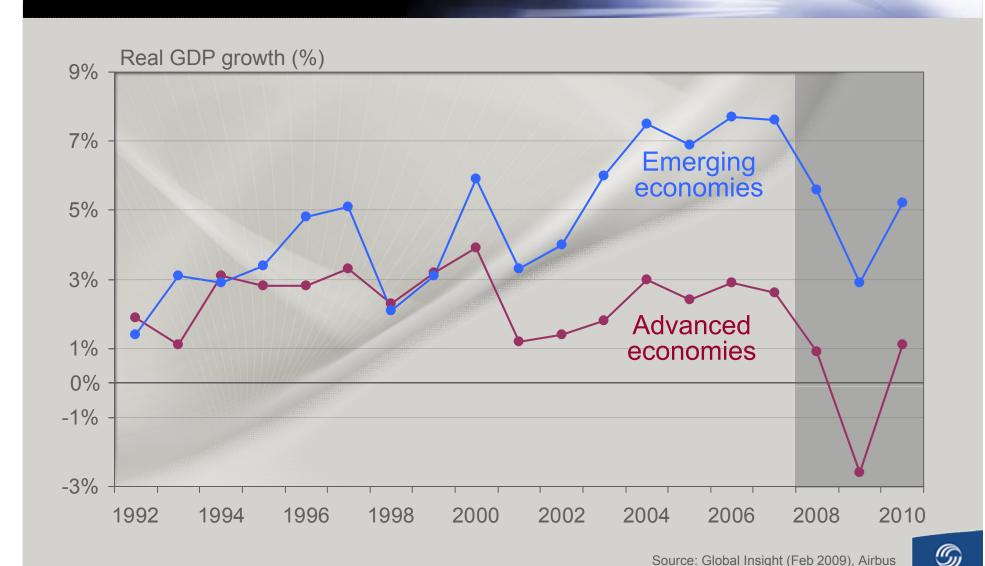
Bisignani cautioned, "We may have found a bottom to the freight decline, but the magnitude of the drop means that it will take time to recover."

. . . .

....only time will tell



Still a Two-Speed World with Emerging economies less impacted by current downturn



AIRBUS

Airbus Confidential

Apr-2009

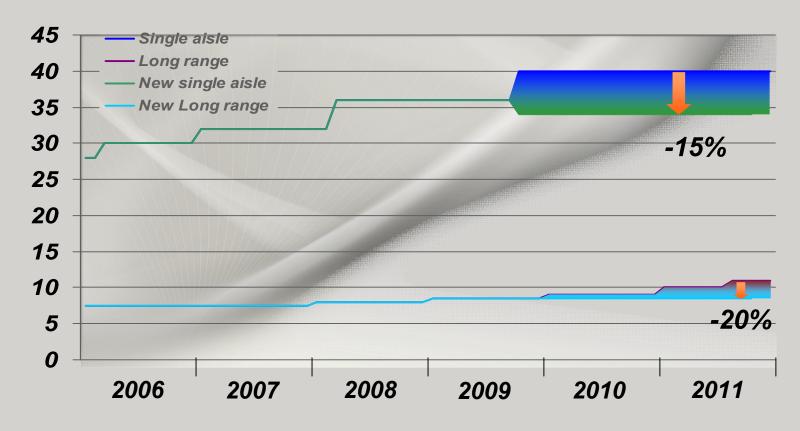
FAA Forecasting Conference

Airbus reaction to the crisis

- Help customers to get access to financing
- Work with customers to adjust delivery streams
- Production rate adjustments



Airbus reaction to the crisis - Responsible rate adjustments



Continuous monitoring and regular reviews
Adjustments to market conditions



Airbus products in context of the crisis

Building a family of freighters





Regional operations: Up to 48t (105,000lbs) / Up to 3,300nm



Medium to long-range operations: Up to 69t (145,000lbs) / Up to 4,000nm

0

A320 / A321 P2F



Up to 27t (60,000lbs) / 2,000nm

2000 2010

0



Product development study

2020

A380F A350F

Long-range high payload operations: Up to 158t (330,000lbs) / Up to 5.800nm

Subject to re-launch

Long-range operations:

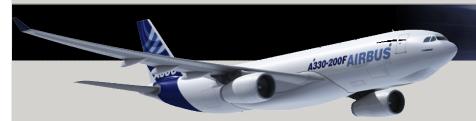
Up to 90t (200,000lbs) / 5.000nm

Product development study

P2F: Passenger to Freighter Dates are for reference only



A330-200F Flexibility Built-In



MTOW

MLW

MZFW

MFC

Engines

Engine thrust

Max structural payload (gross)

Range capability

RANGE MODE

233 t

182 t

173 t

139,090 litres

PAYLOAD MODE

227 t

187 t

178 t

139,090 litres

PW 4000

RR Trent 700

68 to 71.1 klb

64 t

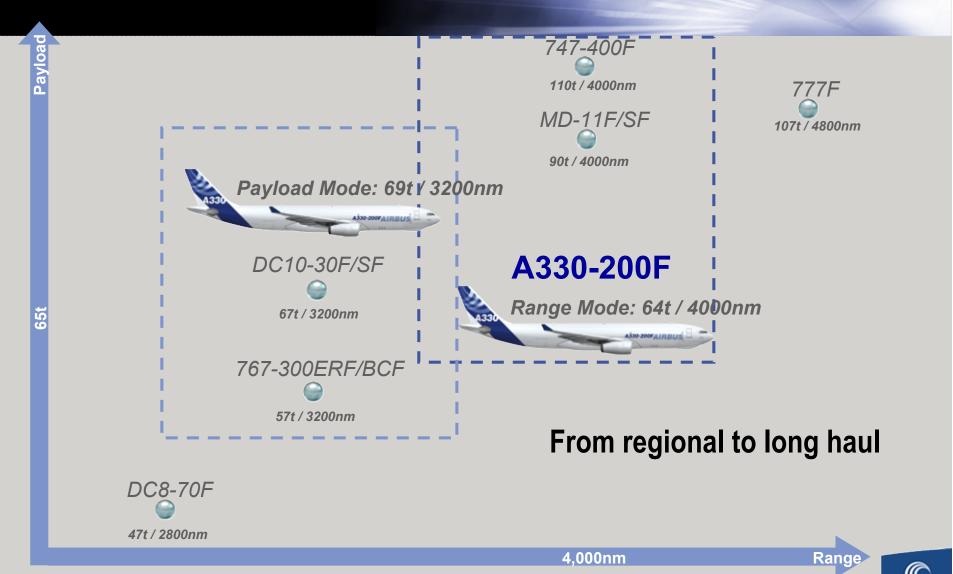
4,000nm

69 t

3,200 nm

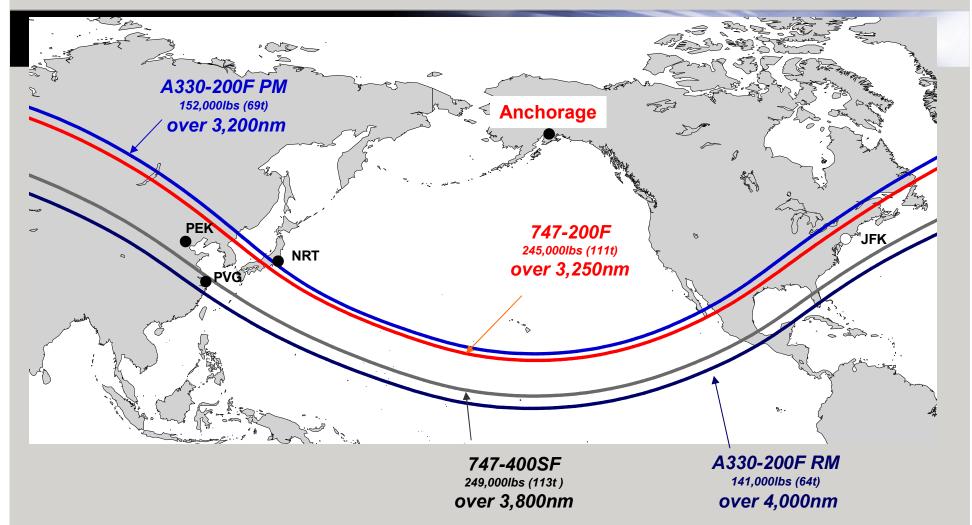


A330-200F - The Versatile Freighter





A330-200F mid-sized freighter with 747F range Full loads from Asia

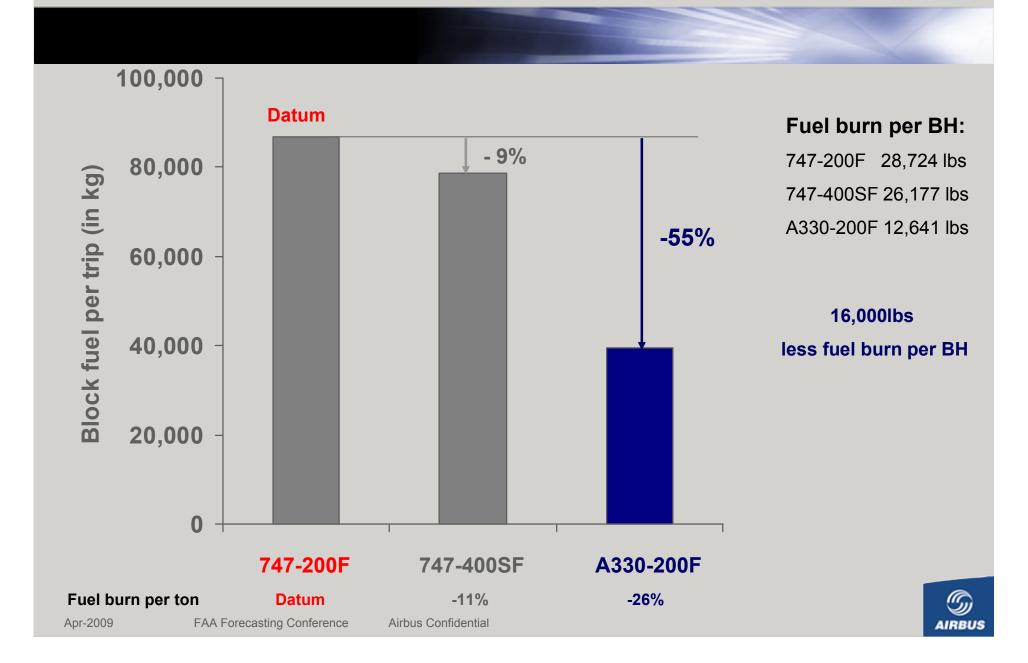


A330-200F allows for easy integration into the existing 747 networks



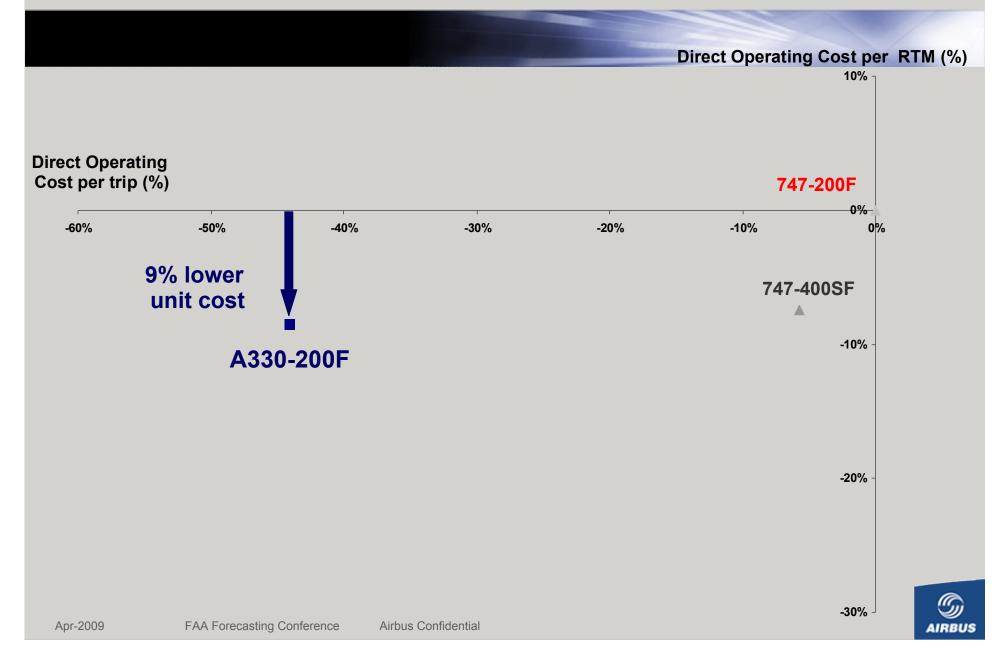
A330-200F has 55% lower fuel burn per trip

NRT to ANC (~3,000nm)



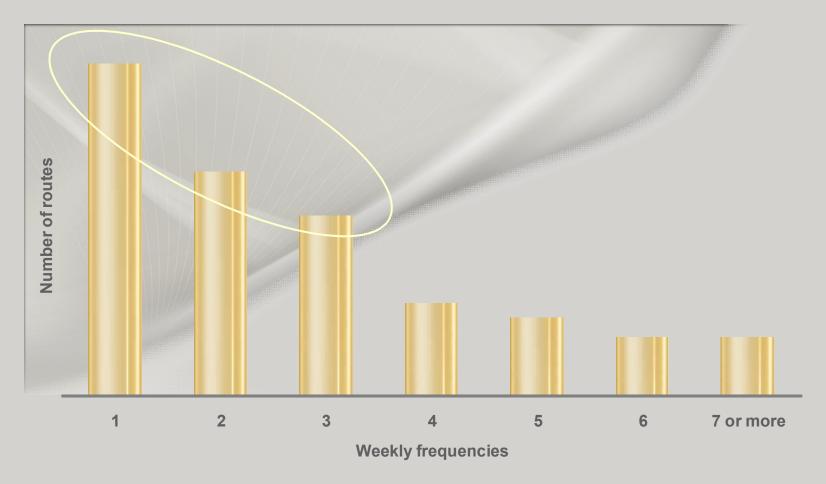
A330-200F has 9% lower Direct Operating Cost per ton

NRT to ANC (~3,000nm)



747F low frequency operation

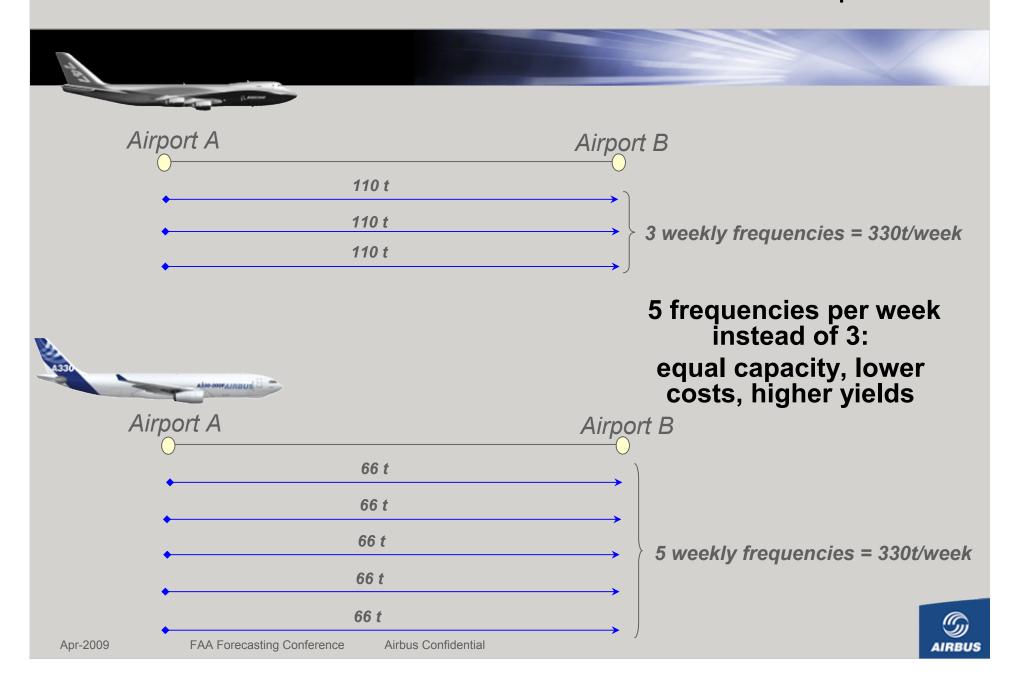
Sample of 747F routes from 28 747-200 and 747-400 freighter operators. A direct route is defined as a route with no intermediate traffic stops.



72% of direct routes are performed with 3 or fewer weekly frequencies



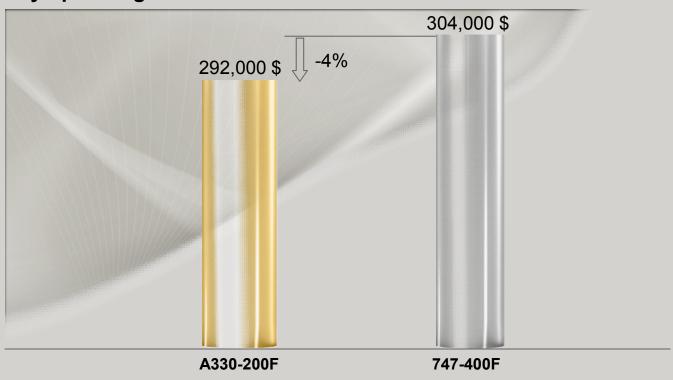
A330-200F Better services and increased revenue potential



A330-200F: Better services and reduced costs

Weekly operating costs

3,000nm - Fuel: \$3.50 per USg



5 weekly frequencies (330t) 3 weekly frequencies (330t)

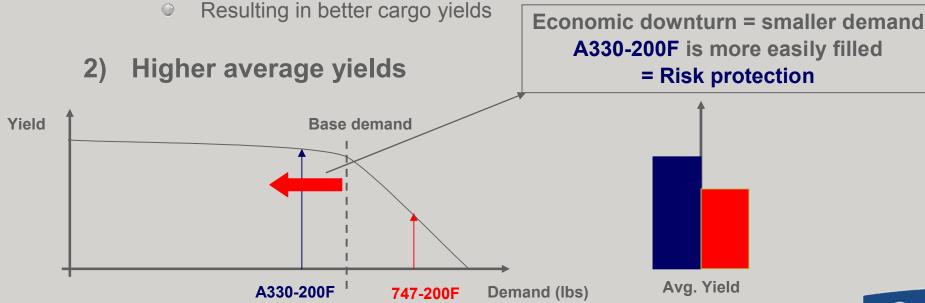
Increasing the number of frequencies with the A330-200F <u>offers better</u> service and <u>increases yields</u> while controlling costs

A330-200F offers to improve yield

1) Flying more frequencies

in markets were a 747-200F can be filled at constant yields

- Better service to customers e.g. forwarders
 The A330-200F offers to increase frequency at the same direct operating cost offering
 - More regular service
 - Easier recovery for shipments left behind
 - Time definite product offering (same trend as ocean freight)





A330-200F - Flexibility and low risk

The A330-200F offers

- Replacement of uneconomic medium size freighters
- Medium size capacity with 747F range
 - Attractive operating cost
 - Increase frequencies
- Higher yields due to better adaptability to market size
- Low risk solution
 - during economic downturn
 - for starting up new routes



Conclusion

- Air cargo might have found the bottom of traffic reductions
- Airbus has reacted to the crisis and adjusted the production rates
- Airbus is going to build up a family of freighters. The A330-200F offers a flexible solution to replace older medium and large long haul freighters and it is a risk insurance in recession times.





Modern, mid-size freighter rational:

A better answer to riskier markets

- Recession / Increased competition
- High fuel prices & declining yields
- Imbalanced cargo flows
- Seasonality of cargo traffic
- Development of new markets (Route opener)
- Frequency improvement
- DC10-30F replacement



